

June 23, 2025
Kearney, Nebraska



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Mayor & City Council
City of St. Francis
209 East Washington
St. Francis, KS 67756

Re: Highway 36 Frontage Road Repair Recommendation

Dear Council Members:

The US-36 Frontage Road is located north of Highway 36 and parallels the highway beginning at River Street and proceeding east to approximately 1,115 feet east of Lorraine Street. The road currently consists of concrete curb and gutter on the south side of the street, and it appears in areas, where visible, that there is curb and gutter on the north side as well, but it has been paved over with numerous asphalt lifts.

Mid-State Engineering & Testing was contracted to conduct pavement coring and subgrade testing in 9 different locations along the frontage road. In their enclosed findings, they concluded that the average depth of existing asphalt is between 4-6 inches. The subgrade below the pavement was tested, and the general results support the preferred method of complete pavement replacement with subgrade preparation.

The alternative to a complete pavement replacement project would be a mill & overlay project where a specified depth is milled off and then a new layer of asphalt is placed back.

The existing frontage road has significant potholing, surface deformation, and surface cracking. The concern with a 2" thick mill and overlay is that the existing surface will not support the weight of the mill machine, and the asphalt will break and come up in chunks, and will not leave a clean, uniform surface. The depth of the surface deformation and potholes is greater than the milled surface depth, which will require additional quantity for expensive pavement patching.

The existing pavement is at a higher elevation than the adjacent curb and gutter as a result of numerous overlays. Without removing enough asphalt to allow the new overlay to sit flush with the curb section, the edge cracking and pavement breakup will continue. With the existing asphalt being between 4-6 inches thick, the concern is raised that if the asphalt is removed down to match the curb section, the thickness of the remaining asphalt would be too thin to support traffic loads.

An additional negative result from the mill and overlay method is the reflection cracking from previous cracks reflecting through to the new asphalt in a short period of time. To mitigate reflection cracking, a geotextile or fabric membrane bond breaker needs to be placed between the lifts. The cost of a bond breaking membrane is typically high. Even with the membrane in place, cracks will start to reflect within 2 to 4 years, requiring the City to conduct extensive crack sealing.

The existing road surface conditions combined with economic feasibility, and evaluation of the future life span and repair cost of the road surface led to the preferred method of full replacement being selected in lieu of a mill and overlay.

Respectfully submitted,
MILLER & ASSOCIATES
CONSULTING ENGINEERS, P.C.



Tyler R. Hillmer, P.E.

TRH/ms

Enclosures

Preliminary Opinion of Probable Construction Cost

Access Road Paving Improvements

City of St. Francis

2" Thick Asphalt Paving

257-A1-000

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|--|---|-----------------|-------------|-------------------|----------------------|
| 1 | Mobilization | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| 2 | Traffic Control | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 3 | Erosion Control / Seeding | 1 | LS | \$ 2,500.00 | \$ 2,500.00 |
| 4 | Mill, Haul, and Stockpile Asphalt -2" Thick | 12,200 | SY | \$ 6.00 | \$ 73,200.00 |
| 5 | Asphaltic Concrete for Patching | 400 | Ton | \$ 300.00 | \$ 120,000.00 |
| 6 | Construct 2" Thick Hot Mix Asphalt | 1,400 | Ton | \$ 150.00 | \$ 210,000.00 |
| 7 | Remove & Replace Concrete Valley Gutter | 250 | SY | \$ 85.00 | \$ 21,250.00 |
| 8 | Remove & Replace Curb & Gutter | 500 | LF | \$ 65.00 | \$ 32,500.00 |
| 9 | Adjust Manhole/Valve Box | 6 | Each | \$ 800.00 | \$ 4,800.00 |
| Construction Cost | | | | | \$ 519,250.00 |
| Design Engineering | | | | | TBD |
| Construction Engineering / Site Observation | | | | | TBD |
| Total Project Cost | | | | | TBD |

Prepared By: Miller & Associates, Consulting Engineers P.C., 6/24/25

Preliminary Opinion of Probable Construction Cost

Access Road Paving Improvements

City of St. Francis

6" Thick Asphalt Paving

257-A1-000

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|--|---|----------|------|--------------|------------------------|
| 1 | Mobilization | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| 2 | Traffic Control | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 3 | Erosion Control / Seeding | 1 | LS | \$ 2,500.00 | \$ 2,500.00 |
| 4 | Remove & Haul Pavement | 12,200 | SY | \$ 10.00 | \$ 122,000.00 |
| 5 | Subgrade Preparation | 12,200 | SY | \$ 14.00 | \$ 170,800.00 |
| 6 | Construct 6" Thick Hot Mix Asphalt | 4,270 | Ton | \$ 150.00 | \$ 640,500.00 |
| 7 | Remove & Replace Concrete Valley Gutter | 250 | SY | \$ 85.00 | \$ 21,250.00 |
| 8 | Remove & Replace Curb & Gutter | 500 | LF | \$ 65.00 | \$ 32,500.00 |
| 9 | Adjust Manhole/Valve Box | 6 | Each | \$ 800.00 | \$ 4,800.00 |
| Design Engineering | | | | | \$ 52,400.00 |
| Construction Engineering / Site Observation | | | | | \$ 36,700.00 |
| Total Project Cost | | | | | \$ 1,138,450.00 |

Prepared By: Miller & Associates, Consulting Engineers P.C., 10/14/24

Preliminary Opinion of Probable Construction Cost

Access Road Paving Improvements

City of St. Francis

6" Thick Concrete Paving

257-A1-000

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|--|---|----------|------|--------------|------------------------|
| 1 | Mobilization | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| 2 | Traffic Control | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 3 | Erosion Control / Seeding | 1 | LS | \$ 2,500.00 | \$ 2,500.00 |
| 4 | Remove & Haul Pavement | 12,200 | SY | \$ 10.00 | \$ 122,000.00 |
| 5 | Subgrade Preparation | 12,200 | SY | \$ 14.00 | \$ 170,800.00 |
| 6 | Construct 6" Thick Concrete Pavement | 12,200 | SY | \$ 70.00 | \$ 854,000.00 |
| 7 | Remove & Replace Concrete Valley Gutter | 250 | SY | \$ 85.00 | \$ 21,250.00 |
| 8 | Remove & Replace Curb & Gutter | 500 | LF | \$ 65.00 | \$ 32,500.00 |
| 9 | Adjust Manhole/Valve Box | 6 | Each | \$ 800.00 | \$ 4,800.00 |
| Design Engineering | | | | | \$ 63,100.00 |
| Construction Engineering / Site Observation | | | | | \$ 44,100.00 |
| Total Project Cost | | | | | \$ 1,370,050.00 |

Prepared By: Miller & Associates, Consulting Engineers P.C., 10/14/24

| Preliminary Opinion of Probable Construction Cost | | | | | |
|--|---|----------|------|--------------|----------------------|
| Access Road Paving Improvements | | | | | |
| City of St. Francis | | | | | |
| 6" Thick Asphalt Paving East to Lorraine | | | | | |
| 257-A1-000 | | | | | |
| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
| 1 | Mobilization | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| 2 | Traffic Control | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 3 | Erosion Control / Seeding | 1 | LS | \$ 2,500.00 | \$ 2,500.00 |
| 4 | Remove & Haul Pavement | 9,400 | SY | \$ 10.00 | \$ 94,000.00 |
| 5 | Subgrade Preparation | 9,400 | SY | \$ 14.00 | \$ 131,600.00 |
| 6 | Construct 6" Thick Hot Mix Asphalt | 3,300 | Ton | \$ 150.00 | \$ 495,000.00 |
| 7 | Remove & Replace Concrete Valley Gutter | 250 | SY | \$ 85.00 | \$ 21,250.00 |
| 8 | Remove & Replace Curb & Gutter | 500 | LF | \$ 65.00 | \$ 32,500.00 |
| 9 | Adjust Manhole/Valve Box | 6 | Each | \$ 800.00 | \$ 4,800.00 |
| Design Engineering | | | | | \$ 41,800.00 |
| Construction Engineering / Site Observation | | | | | \$ 29,200.00 |
| Total Project Cost | | | | | \$ 907,650.00 |

Prepared By: Miller & Associates, Consulting Engineers P.C., 10/14/24

| Preliminary Opinion of Probable Construction Cost | | | | | |
|--|---|----------|------|--------------|------------------------|
| Access Road Paving Improvements | | | | | |
| City of St. Francis | | | | | |
| 6" Thick Concrete Paving East to Lorraine | | | | | |
| 257-A1-000 | | | | | |
| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
| 1 | Mobilization | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| 2 | Traffic Control | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 3 | Erosion Control / Seeding | 1 | LS | \$ 2,500.00 | \$ 2,500.00 |
| 4 | Remove & Haul Pavement | 9,400 | SY | \$ 10.00 | \$ 94,000.00 |
| 5 | Subgrade Preparation | 9,400 | SY | \$ 14.00 | \$ 131,600.00 |
| 6 | Construct 6" Thick Concrete Pavement | 9,400 | SY | \$ 70.00 | \$ 658,000.00 |
| 7 | Remove & Replace Concrete Valley Gutter | 250 | SY | \$ 85.00 | \$ 21,250.00 |
| 8 | Remove & Replace Curb & Gutter | 500 | LF | \$ 65.00 | \$ 32,500.00 |
| 9 | Adjust Manhole/Valve Box | 6 | Each | \$ 800.00 | \$ 4,800.00 |
| Design Engineering | | | | | \$ 49,900.00 |
| Construction Engineering / Site Observation | | | | | \$ 34,900.00 |
| Total Project Cost | | | | | \$ 1,084,450.00 |

Prepared By: Miller & Associates, Consulting Engineers P.C., 10/14/24



300 ft

27

Google Earth



300 ft

Yest Ford

St. Francis Tire

Republican Valley Vet Clinic

Twisted Liquor

36

Village Rd

S Denison St

Cheyenne County Village

Google Earth



400 ft

27

Hilltop Diner

4th St

S Quiney St

S Adams St

River St

Google Earth

Since 2016 the City of St. Francis has invested more than \$2,000,000 in street improvement projects with an additional \$1,090,390 in grant funding received for these projects. Following is a summary of the significant projects completed through July 2025:

- 2016 – Intersection work at Fourth and Denison, Intersection work at First and Quincy, and the resurfacing of College Street from North Street to Spencer Street. (\$146,031.61)
- 2017 – Intersection work at Spencer and Quincy, Intersection work at Spencer and River, Intersection work at Benton and Washington (\$23,283.25)
- 2018 – Resurfacing of College from Spencer Street to Highway 36, Intersection work at College and North (\$164,532.50)
- 2019 – Crack sealing (\$6,820)
- 2020 – Chip sealing of Whittier Street, alley approaches (\$31,236.60)

In 2020, voters approved a 1% sales tax for infrastructure improvements. The plan for the revenue generated from the sales tax is primarily for street improvements and repayment of bonds issued for these improvements.

With the passing of the sales tax, the City began working on a plan for two major street improvement projects. Miller and Associates was hired to assist the City with identifying and evaluating streets that could potentially qualify for Community Development Block Grant (CDBG) funding. Eligibility criteria is that at least 51% of the persons benefiting from the street project must be low to moderate income (LMI). An LMI survey was done to confirm eligibility. The City then applied for and received a \$600,000 Community Development Block Grant. The total estimated cost of phase 1 was \$1,450,000 and bonds were issued for the balance of the project.

Improvements were completed in 2021 and 2022 on the following streets:

Phase 1:

Benton: Spencer to Emerson

Denison: Spencer to Whittier

Frances: Second to First

Frances: Washington to Emerson

Parkway Drive: Fourth to Frances

Scott: Whittier to North

The process for phase 2 began in the fall of 2021 and again the City qualified for CDBG funding, receiving \$490,390. The total estimated cost of phase 2 was \$1,081,920 and bonds were issued for the balance of the project.

Improvements were completed in 2023 on the following streets:

Phase 2:

Whittier: Quincy to Scott

Frances: Spencer to Emerson

Webster: Frances to College

Quincy: Highway 36 to First

College: Highway 36 to Spencer

With the two major projects completed, the City began focusing on a plan to move forward with ongoing improvements for other streets in town.

In 2024 \$164,724.33 was invested in streets with chip sealing being completed on the following streets:

- Benton Street from Spencer St to North St
- Denison Street from Spencer St to Whittier St
- Frances Street from Washington St to Emerson St
- College Street from Spencer St to North St
- Benton Street from Spencer St to the Access Road
- River Street from Washington St to the Access Road
- First Street from Lorraine St to Frances St
- Scott Street from Spencer St to the Access Road
- Jackson Street from College St to Cedar St

In July of 2025 intersection work was completed at Benton and Spencer. (\$60,720)

The City Council Street Committee (Mayor Amanda Milne, Councilman Justin Lohr, City Superintendent Dan Blair) has spent considerable time looking at the streets in town and identifying those most in need of repair. The streets were categorized by priority and the list sent to Tyler Hillmer, Engineer with Miller and Associates. At a special meeting of the City Council on June 30, Tyler presented a map of the City showing the streets that were determined to be of the highest priority. He discussed the differences in construction materials and shared the estimated costs of the repairs for each of the streets. This information will be used to determine the next steps.

(Look elsewhere in this post for the details from Miller & Associates regarding the estimated costs of future street improvements).

The St. Francis City Council recognizes the importance of investing in infrastructure improvements for the City. In addition to the street projects, beginning in 2020 approximately \$200,000 a year has been put into electrical infrastructure improvements. The Council is also committed to sharing as much information as possible with the public. Public input is welcomed and encouraged.

Preliminary Opinion of Probable Construction Cost

City of St. Francis

Pavement Improvement Projects

#1 Priority

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|----------|---------------------------|----------|------|------------|--------------|
| 1 | Mobilization | 1 | LS | | \$ 50,000.00 |
| 2 | Traffic Control | 1 | LS | | \$ 5,000.00 |
| 3 | Erosion Control / Seeding | 1 | LS | | \$ 10,000.00 |

Quincy Street- Whittier to North- 6" Asphalt

| | | | | | |
|-----------------|------------------------------------|-------|------|-------------|---------------------|
| 1 | Gravel Removal and Excavation | 1,030 | SY | \$ 10.00 | \$ 10,300.00 |
| 2 | Subgrade Preparation | 1,030 | SY | \$ 12.00 | \$ 12,360.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 360 | Ton | \$ 150.00 | \$ 54,000.00 |
| 4 | Remove & Replace Curb & Gutter | 50 | L.F. | \$ 65.00 | \$ 3,250.00 |
| 5 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 8,100.00 |
| Subtotal | | | | | \$ 89,010.00 |

Jackson Street- Benton to Francis - 2" Asphalt Mill & Overlay

| | | | | | |
|-----------------|------------------------------------|-------|------|-------------|----------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 4,500 | SY | \$ 8.00 | \$ 36,000.00 |
| 2 | Asphaltic Concrete for Patching | 100 | Ton | \$ 200.00 | \$ 20,000.00 |
| 3 | Construct 2" Thick Hot Mix Asphalt | 570 | Ton | \$ 150.00 | \$ 85,500.00 |
| 4 | Remove & Replace Curb & Gutter | 100 | LF | \$ 65.00 | \$ 6,500.00 |
| 5 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 15,000.00 |
| Subtotal | | | | | \$ 165,000.00 |

Webster Street- Benton to Denison - 6" Asphalt

| | | | | | |
|-----------------|------------------------------------|-------|------|-------------|----------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,640 | SY | \$ 8.00 | \$ 13,120.00 |
| 2 | Subgrade Preparation | 1,640 | SY | \$ 12.00 | \$ 19,680.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 580 | Ton | \$ 150.00 | \$ 87,000.00 |
| 4 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 5 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 12,400.00 |
| Subtotal | | | | | \$ 136,450.00 |

Spencer Street- College to Lorraine 6" Asphalt

| | | | | | |
|-----------------|------------------------------------|-------|------|-------------|----------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 3,200 | SY | \$ 8.00 | \$ 25,600.00 |
| 2 | Subgrade Preparation | 3,200 | SY | \$ 12.00 | \$ 38,400.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 1,120 | Ton | \$ 150.00 | \$ 168,000.00 |
| 4 | Remove & Replace Curb & Gutter | 100 | LF | \$ 65.00 | \$ 6,500.00 |
| 5 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 24,100.00 |
| Subtotal | | | | | \$ 264,600.00 |

Third Street- College to Lorraine- 6" Asphalt

| | | | | | |
|-----------------|------------------------------------|-------|------|-------------|----------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,790 | SY | \$ 8.00 | \$ 14,320.00 |
| 2 | Subgrade Preparation | 1,790 | SY | \$ 12.00 | \$ 21,480.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 630 | Ton | \$ 150.00 | \$ 94,500.00 |
| 4 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 5 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 13,600.00 |
| Subtotal | | | | | \$ 149,150.00 |

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|---|---|----------|------|-------------|------------------------|
| Fourth Street- College to Lorraine- 6" Asphalt | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 1,660 | SY | \$ 8.00 | \$ 13,280.00 |
| 2 | Subgrade Preparation | 1,660 | SY | \$ 12.00 | \$ 19,920.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 580 | Ton | \$ 150.00 | \$ 87,000.00 |
| 4 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 5 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 12,200.00 |
| Subtotal | | | | | \$ 134,400.00 |
| Ash Street- Jackson to Whittier- 2" Asphalt Mill & Overlay | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 3,020 | SY | \$ 8.00 | \$ 24,160.00 |
| 2 | Asphaltic Concrete for Patching | 50 | Ton | \$ 200.00 | \$ 10,000.00 |
| 3 | Construct 2" Thick Hot Mix Asphalt | 380 | Ton | \$ 150.00 | \$ 57,000.00 |
| 4 | Remove & Replace Curb & Gutter | 100 | L.F. | \$ 65.00 | \$ 6,500.00 |
| 5 | Remove & Replace Concrete Sidewalk | 500 | S.F. | \$ 20.00 | \$ 10,000.00 |
| 6 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 7 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 11,000.00 |
| Subtotal | | | | | \$ 120,660.00 |
| Birch Street- Jackson to Whittier- 2" Asphalt Mill & Overlay | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 3,020 | SY | \$ 8.00 | \$ 24,160.00 |
| 2 | Asphaltic Concrete for Patching | 50 | Ton | \$ 200.00 | \$ 10,000.00 |
| 3 | Construct 2" Thick Hot Mix Asphalt | 380 | Ton | \$ 150.00 | \$ 57,000.00 |
| 4 | Remove & Replace Curb & Gutter | 400 | L.F. | \$ 65.00 | \$ 26,000.00 |
| 5 | Remove & Replace Concrete Sidewalk | 2,000 | S.F. | \$ 20.00 | \$ 40,000.00 |
| 6 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 7 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 15,900.00 |
| Subtotal | | | | | \$ 175,060.00 |
| Angle Road- First to the 150' South of the Bridge- 8" Concrete | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 1,500 | SY | \$ 8.00 | \$ 12,000.00 |
| 2 | Subgrade Preparation | 1,500 | SY | \$ 12.00 | \$ 18,000.00 |
| 3 | Construct 8" Thick Concrete Pavement | 1,500 | SY | \$ 85.00 | \$ 127,500.00 |
| 4 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 5 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 15,900.00 |
| Subtotal | | | | | \$ 174,400.00 |
| Angle Road- 150' North of the Bridge to Washington - 8" Concrete | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 2,700 | SY | \$ 8.00 | \$ 21,600.00 |
| 2 | Subgrade Preparation | 2,700 | SY | \$ 12.00 | \$ 32,400.00 |
| 3 | Construct 8" Thick Concrete Pavement | 2,700 | SY | \$ 85.00 | \$ 229,500.00 |
| 4 | Remove & Replace Concrete Valley Gutter | 60 | SY | \$ 80.00 | \$ 4,800.00 |
| 5 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 29,000.00 |
| Subtotal | | | | | \$ 319,300.00 |
| Construction Subtotal | | | | | \$ 1,793,030.00 |
| Design Engineering | | | | | TBD |
| Construction Engineering / Inspection | | | | | TBD |
| Total Project Cost | | | | | TBD |

Preliminary Opinion of Probable Construction Cost

City of St. Francis

Pavement Improvement Projects

#2 Priority

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|----------|---------------------------|----------|------|------------|--------------|
| 1 | Mobilization | 1 | LS | | \$ 50,000.00 |
| 2 | Traffic Control | 1 | LS | | \$ 5,000.00 |
| 3 | Erosion Control / Seeding | 1 | LS | | \$ 10,000.00 |

Quincy Street - First to Spencer- 2" Asphalt Mill & Overlay

| | | | | | |
|---|------------------------------------|-------|------|-----------------|---------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,360 | SY | \$ 8.00 | \$ 10,880.00 |
| 2 | Construct 2" Thick Hot Mix Asphalt | 170 | Ton | \$ 150.00 | \$ 25,500.00 |
| 3 | Asphaltic Concrete for Patching | 20 | Ton | \$ 200.00 | \$ 4,000.00 |
| 4 | Remove & Replace Curb & Gutter | 50 | L.F. | \$ 65.00 | \$ 3,250.00 |
| 5 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 4,500.00 |
| | | | | Subtotal | \$ 49,130.00 |

Francis Street- First to Spencer- 6" Asphalt

| | | | | | |
|---|---|-------|------|-----------------|----------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,170 | SY | \$ 8.00 | \$ 9,360.00 |
| 2 | Subgrade Preparation | 1,170 | SY | \$ 12.00 | \$ 14,040.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 410 | Ton | \$ 150.00 | \$ 61,500.00 |
| 4 | Remove & Replace Concrete Valley Gutter | 75 | SY | \$ 80.00 | \$ 6,000.00 |
| 5 | Remove & Replace Concrete Alley Apron | 20 | SY | \$ 80.00 | \$ 1,600.00 |
| 6 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 7 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 8 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 9,700.00 |
| | | | | Subtotal | \$ 106,450.00 |

Second Street- Scott to Benton - 6" Asphalt

| | | | | | |
|---|---|-------|------|-----------------|----------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,080 | SY | \$ 8.00 | \$ 8,640.00 |
| 2 | Subgrade Preparation | 1,080 | SY | \$ 12.00 | \$ 12,960.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 380 | Ton | \$ 150.00 | \$ 57,000.00 |
| 4 | Remove & Replace Concrete Valley Gutter | 100 | SY | \$ 80.00 | \$ 8,000.00 |
| 5 | Remove & Replace Concrete Alley Apron | 20 | SY | \$ 80.00 | \$ 1,600.00 |
| 6 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 7 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 8 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 9,200.00 |
| | | | | Subtotal | \$ 101,650.00 |

Emerson Street- Quincy to Scott - 2" Asphalt Mill & Overlay

| | | | | | |
|---|---|-------|------|-----------------|---------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,560 | SY | \$ 8.00 | \$ 12,480.00 |
| 2 | Asphaltic Concrete for Patching | 50 | Ton | \$ 200.00 | \$ 10,000.00 |
| 3 | Construct 2" Thick Hot Mix Asphalt | 200 | Ton | \$ 150.00 | \$ 30,000.00 |
| 4 | Remove & Replace Concrete Valley Gutter | 50 | SY | \$ 80.00 | \$ 4,000.00 |
| 5 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 6 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 7 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 6,100.00 |
| | | | | Subtotal | \$ 66,830.00 |

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|---|------------------------------------|----------|------|-------------|----------------------|
| First Street- Angle to River- 6" Asphalt | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 4,800 | SY | \$ 8.00 | \$ 38,400.00 |
| 2 | Subgrade Preparation | 4,800 | SY | \$ 12.00 | \$ 57,600.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 1,680 | Ton | \$ 150.00 | \$ 252,000.00 |
| 4 | Remove & Replace Curb & Gutter | 200 | LF | \$ 65.00 | \$ 13,000.00 |
| 5 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 36,300.00 |
| Subtotal | | | | | \$ 399,300.00 |
| Construction Subtotal | | | | | \$ 788,360.00 |
| Design Engineering | | | | | TBD |
| Construction Engineering / Inspection | | | | | TBD |
| Total Project Cost | | | | | TBD |

Preliminary Opinion of Probable Construction Cost

City of St. Francis

Pavement Improvement Projects

#3 Priority

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|----------|---------------------------|----------|------|------------|--------------|
| 1 | Mobilization | 1 | LS | | \$ 50,000.00 |
| 2 | Traffic Control | 1 | LS | | \$ 5,000.00 |
| 3 | Erosion Control / Seeding | 1 | LS | | \$ 10,000.00 |

Francis Street- Access Road to Second- 6" Asphalt

| | | | | | |
|-----------------|---|-------|------|-------------|----------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 3,910 | SY | \$ 8.00 | \$ 31,280.00 |
| 2 | Subgrade Preparation | 3,910 | SY | \$ 12.00 | \$ 46,920.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 1,370 | Ton | \$ 150.00 | \$ 205,500.00 |
| 4 | Remove & Replace Concrete Valley Gutter | 30 | SY | \$ 80.00 | \$ 2,400.00 |
| 5 | Remove & Replace Curb & Gutter | 150 | LF | \$ 65.00 | \$ 9,750.00 |
| 6 | Adjust Manhole/Valve Box | 3 | Each | \$ 1,000.00 | \$ 3,000.00 |
| 7 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 29,900.00 |
| Subtotal | | | | | \$ 328,750.00 |

Francis Street- Whittier to North- 6" Asphalt

| | | | | | |
|-----------------|------------------------------------|-------|------|-------------|----------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,250 | SY | \$ 8.00 | \$ 10,000.00 |
| 2 | Subgrade Preparation | 1,250 | SY | \$ 12.00 | \$ 15,000.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 440 | Ton | \$ 150.00 | \$ 66,000.00 |
| 4 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 5 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 9,500.00 |
| Subtotal | | | | | \$ 104,750.00 |

Adams Street- Fourth to Third- 2" Asphalt Mill & Overlay

| | | | | | |
|-----------------|------------------------------------|-------|------|-------------|---------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,180 | SY | \$ 8.00 | \$ 9,440.00 |
| 2 | Asphaltic Concrete for Patching | 20 | Ton | \$ 200.00 | \$ 4,000.00 |
| 3 | Construct 2" Thick Hot Mix Asphalt | 150 | Ton | \$ 100.00 | \$ 15,000.00 |
| 4 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 5 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 3,300.00 |
| Subtotal | | | | | \$ 35,990.00 |

Adams Street- First to Spencer - 2" Asphalt Mill & Overlay

| | | | | | |
|-----------------|---------------------------------------|-------|------|-------------|---------------------|
| 1 | Mill, Haul, and Stockpile Asphalt | 1,260 | SY | \$ 8.00 | \$ 10,080.00 |
| 2 | Asphaltic Concrete for Patching | 20 | Ton | \$ 200.00 | \$ 4,000.00 |
| 3 | Construct 2" Thick Hot Mix Asphalt | 160 | Ton | \$ 150.00 | \$ 24,000.00 |
| 4 | Remove & Replace Concrete Alley Apron | 20 | SY | \$ 80.00 | \$ 1,600.00 |
| 5 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 6 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 7 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 4,400.00 |
| Subtotal | | | | | \$ 48,330.00 |

| Item No. | Item | Quantity | Unit | Unit Price | Total Price |
|--|---|----------|------|-------------|------------------------|
| Benton Street- Access Road to Third - 6" Asphalt | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 2,350 | SY | \$ 8.00 | \$ 18,800.00 |
| 2 | Subgrade Preparation | 2,350 | SY | \$ 12.00 | \$ 28,200.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 820 | Ton | \$ 150.00 | \$ 123,000.00 |
| 4 | Remove & Replace Concrete Valley Gutter | 180 | SY | \$ 80.00 | \$ 14,400.00 |
| 5 | Remove & Replace Curb & Gutter | 100 | LF | \$ 65.00 | \$ 6,500.00 |
| 6 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 7 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 19,300.00 |
| Subtotal | | | | | \$ 212,200.00 |
| Second Street- Valley to River - 6" Asphalt | | | | | |
| 1 | Gravel Removal and Excavation | 1,180 | SY | \$ 10.00 | \$ 11,800.00 |
| 2 | Subgrade Preparation | 1,180 | SY | \$ 12.00 | \$ 14,160.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 420 | Ton | \$ 150.00 | \$ 63,000.00 |
| 4 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 5 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 9,000.00 |
| Subtotal | | | | | \$ 98,960.00 |
| Second Street- River to Adams - 6" Asphalt | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 1,120 | SY | \$ 8.00 | \$ 8,960.00 |
| 2 | Subgrade Preparation | 1,120 | SY | \$ 12.00 | \$ 13,440.00 |
| 3 | Construct 6" Thick Hot Mix Asphalt | 400 | Ton | \$ 150.00 | \$ 60,000.00 |
| 4 | Remove & Replace Curb & Gutter | 50 | LF | \$ 65.00 | \$ 3,250.00 |
| 5 | Adjust Manhole/Valve Box | 1 | Each | \$ 1,000.00 | \$ 1,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 8,700.00 |
| Subtotal | | | | | \$ 95,350.00 |
| Whittier Street- College to Birch - 2" Asphalt Mill & Overlay | | | | | |
| 1 | Mill, Haul, and Stockpile Asphalt | 2,900 | SY | \$ 8.00 | \$ 23,200.00 |
| 2 | Asphaltic Concrete for Patching | 50 | Ton | \$ 200.00 | \$ 10,000.00 |
| 3 | Construct 2" Thick Hot Mix Asphalt | 365 | Ton | \$ 150.00 | \$ 54,750.00 |
| 4 | Remove & Replace Curb & Gutter | 100 | LF | \$ 65.00 | \$ 6,500.00 |
| 5 | Adjust Manhole/Valve Box | 2 | Each | \$ 1,000.00 | \$ 2,000.00 |
| 6 | Miscellaneous & Contingencies 10% | 1 | LS | | \$ 9,600.00 |
| Subtotal | | | | | \$ 106,050.00 |
| Construction Subtotal | | | | | \$ 1,095,380.00 |
| Design Engineering | | | | | TBD |
| Construction Engineering / Inspection | | | | | TBD |
| Total Project Cost | | | | | TBD |

ST. FRANCIS, KANSAS 2025



PROPOSED LOCATIONS FOR IMPROVEMENT

- #1 PRIORITY
- #2 PRIORITY
- #3 PRIORITY

